

# METAL FORMING

incorporating THE DROP FORGER

---

## *Index to volume 34*

January to December 1967

---

### ARTICLES

Annealing on the properties of large forgings, the effect of prolonged .....	45	Drop forging .....	19, 37
B.N.F.M.R.A. open days .....	108	Effect of prolonged annealing on the properties of large forgings .....	45
Cameron Iron Works Ltd. ....	199	Electricity - Heating in the drop forge .....	49
Carmel Forge - Drop forging in Israel, The ..	16	Electron - beam weld tube mill .....	374
Clarke's Crank and Forge Co. Ltd. ....	367	Engineering Exhibition, the International .....	114
Cold Extrusion Group - Institute of Sheet Metal Engineering .....	168	Explosive forming .....	307
Considerations in planning and layout of a new forge .....	341	Extrusion of aluminium tubes and sections .....	78
Developments in the control conversion and equipping of forging plants .....	279	Extrusion presses, speed measurement and regulation on hydraulic rod and tube .....	296
Die blocks, modern manufacture of .....	299, 276	Fatigue life of a forged En 8 steel .....	376
Die forging press with a new drive, a .....	194	Forging Conference, International, Sheffield .....	261, 328
		Forging on a multiple-ram press .....	199
		Forging plant, performance characteristics of .....	362
		Forging plants, developments in the control, conversion and equipping of .....	279
		Forging press with a new drive, a die .....	194
		Forgings, progress in the manufacture of large .....	131, 169
		Furnace in the forge - Heating in the drop forge .....	140
		Furnace refractories - Heating in the drop forge .....	110

Heating in the drop forge .....	9, 49, 69, 85, 110 140, 179, 215	Scale-free heating in a protective medium of glass .....	75
Heating of steel for hot working .....	161, 205, 246	Scales on iron-base alloys - Heating in the drop forge .....	69
Hydraulics of metal forging, the .....	137	Speed measurement and regulation on hydraulic rod and tube extrusion presses .....	296
Hytex drop hammer boards .....	18	Stock control and forecasting techniques at drop forging firm .....	163

'Kross Roll' process, the .....	106
---------------------------------	-----

Laird and Son Ltd. .....	163	Theoretical method of designing tools for metal-forming processes .....	143
		Three-roll piercer .....	82
		Transverse rolling solves many problems ...	99

Machine Tool Exhibition, 10th European, Messe Hanover .....	239
Materials science in technology and education, the role of .....	371
Mechanical properties and inhomogeneity of large forgings .....	3
Mechanized forging on 2,000-ton press .....	243
'Metallidling' .....	315
Modern manufacture of die blocks for the metal-forming industries .....	229, 276

Oil-Heating in the dropforge .....	9
------------------------------------	---

Performance characteristics of forging plant .....	362
Precession swaging on a Wecker twin-hammer forging machine .....	165
Programmed forging press .....	367
Progress in the manufacture of large forgings .....	131, 169

Ransomes' new Nacton Works .....	304
Rapid heating of steel for hot working .....	161, 205, 246
Reducing shock and vibration .....	304

Wecker twin-hammer forging machine, precision forging on .....	165
---	-----

#### LEADERS

Cold-forming on TV .....	227
Forgemasters in Sheffield .....	97
Lightmakers, the .....	
Look at 1967, a .....	325
Look at Russia, a .....	129
Make it new .....	361
Non-destructive testing .....	159
North Sea gas .....	193
Plant manufacture, 1967 .....	67
Sing a song of steel .....	1
Spray steelmaking .....	35
Welcome to Sheffield .....	259

#### NADFS

Annual convention, 1967 .....	212
50th anniversary .....	326
Heating in the drop forge .....	9, 49, 69, 85, 110 140, 179, 215

#### NFA

International Forging Conference, Sheffield .....	261, 328
--	----------

## AUTHOR INDEX

---

Abbot, K. J.	19, 37	Needham, G.	376
Bayliss, R. N.	229, 276	Otter, T. H.	341
Black, J.	279	Perry, J.	161, 205, 246
Blake, R. A.	9	Rau, G.	194
Blazynski, T. Z.	143	Rolls, R.	69
Boxall, T. D.	161, 205, 246	Ross, K.	78, 279
Chisholm, C. U.	371	Schneider, R.	296
Dean, T. A.	362	Sharples, J. T.	49
Egan, P. F.	99	Sommer, B.	75
Etchells, W. K.	140	Sully, A. H.	131, 169
Hall, E. H.	78	Ticky, J.	45
Harvey, R. F.	106	Wilcock, R.	9, 161, 205, 246
Haslam, G. H.	376	Willingham, R. C.	161, 205, 246
King, G. R.	307	Winter, E. F.	161, 205, 246
Lickley, R.	110	Zlatnik, I.	3
		Zlatnikova, J.	3

СОВЕТСКАЯ

